

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
7 December 2000 (07.12.2000)

PCT

(10) International Publication Number

WO 00/73343 A3

- (51) International Patent Classification⁷: C07K 16/40. G01N 33/573
- (21) International Application Number: PCT/IL00/00312
- (22) International Filing Date: 31 May 2000 (31.05.2000)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
130225 31 May 1999 (31.05.1999) IL
- (71) Applicant (for all designated States except US): YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM [IL/IL]; 46 Jabotinsky Street, P.O. Box 4279, 91042 Jerusalem (IL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SOREQ, Hermona [IL/IL]; 14 HaMaayan Street, 95930 Jerusalem (IL). KAUFER, Daniela [IL/IL]; 23 HaNahal Street, 59095 Kfar Azar (IL). FRIEDMAN, Alon [IL/IL]; 5 Binyamin Street, 70700 Gedera (IL). SEIDMAN, Shlomo [IL/IL]; Neve Daniel, 90999 Gush Etzion (IL).
- (74) Agents: LUZZATTO, Kfir et al.; Luzzatto & Luzzatto, P.O. Box 5352, 84152 Beer-Sheva (IL).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

- With international search report.
- Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.

(88) Date of publication of the international search report:
18 January 2001

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 00/73343 A3

(54) Title: DIAGNOSTIC USES OF ANTIBODIES AGAINST ACETYLCHOLINESTERASE OR C-TERMINAL PEPTIDES THEREOF

(57) Abstract: The invention relates to antibodies recognizing acetylcholinesterase or a C-terminal peptide derived from acetyl-cholinesterase, useful in diagnosing central nervous system (CNS) stress, elevated glucocorticoid level, disruption of the blood-brain barrier or Alzheimer's disease. The invention also relates to methods for the diagnosis of central nervous system (CNS) stress, elevated glucocorticoid level or disruption of the blood-brain barrier in a mammal, by use of the antibodies of the invention.